

Message Text

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TO AMEMBASSY MOSCOW

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E.O. 11652: N/A

TAGS: TGEN, US, UR

SUBJECT: S&T: COMPUTER APPLICATIONS: SOFTWARE FOUNDATIONS
(01.0104)

REF: MOSCOW 2224; STATE 31715

AUFENKAMP REQUESTS FOLLOWING MESSAGE BE TRANSMITTED TO
SHURAKOV, INSTITUTE OF ECONOMICS AND STATISTICS AND TO
VOEVODIN, MOSCOW STATE UNIVERSITY COMPUTER CENTER WITH
COPY TO SCST:

QUOTE. AUFENKAMP AND OTHER US PROJECT PARTICIPANTS MET
WITH ARUSHANIAN FEBRUARY 19 AND 20, IN ACCORDANCE WITH
PROGRAM FOR PROJECT 1 (MATHEMATICAL SOFTWARE), SET FORTH
IN ATTACHMENT 1 OF THE DECEMBER 18, 1975 RECORD. SIGNED
COPY OF MEMORANDUM OF DISCUSSION WILL BE DELIVERED TO
PROFESSOR SHURAKOV DURING AUFENKAMP'S VISIT IN MARCH.

THE PURPOSE OF THE MEETING WAS FOR FURTHER FAMILIARIZATION
OF US SPECIALISTS WITH THE PROGRAM GENERATOR SYSTEM OF
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MOSCOW STATE UNIVERSITY INCLUDING FUTURE PLANS AND FOR
FURTHER FAMILIARIZATION OF USSR SPECIALISTS WITH THE

LINPACK PROJECT INCLUDING FUTURE PLANS. PAPERS, REPORTS
AND OTHER INFORMATION WERE EXCHANGED ON BOTH SYSTEMS.

THE FOLLOWING STEPS WERE AGREED UPON BY THE PARTICIPANTS
TO CARRY OUT PROJECT 1:

1. IT IS PROPOSED THAT THE US SYSTEMS SPECIALISTS VISIT
THE USSR DURING AUGUST AND SEPTEMBER 1976 AND THE US
NUMERICAL ANALYSIS SPECIALISTS VISIT THE USSR DURING THE
PERIOD SEPTEMBER-NOVEMBER 1976.

2. THE PRINCIPAL SYSTEMS PROGRAMMING TOPICS TO BE
DISCUSSED IN THE USSR INCLUDE:

DESIGN, ORGANIZATION AND INTERRELATION OF PROGRAM
GENERATOR COMODULES (CONSTRUCTIVE MODULES) AND TAMPR
(SYSTEM COMPONENT OF LINPACK) PROTOTYPE PROGRAMS;

METHODOLOGY FOR CREATING REQUEST LANGUAGES AND
APPLICATIONS SYSTEMS;

USE OF PROGRAM GENERATOR AND TAMPR FOR FORTRAN TO PL1
TRANSLATIONS;

EXAMINATION OF FEASIBILITY OF DESIGNING A COMMON
SUCCESSOR TO THE PROGRAM GENERATOR AND TAMPR SYSTEMS.

3. DURING THE STAY OF THE US NUMERICAL ANALYSIS
SPECIALISTS IN THE USSR IN THE FALL OF 1976 THE MOSCOW
STATE UNIVERSITY SCIENCE RESEARCH COMPUTING CENTER WILL
FORMULATE A LIST OF SUBROUTINES AND NUMERICAL METHODS
WHICH WILL CONTRIBUTE TO A PROPOSED FUTURE US-USSR
MATHEMATICAL SOFTWARE PACKAGE IN LINEAR SYSTEMS.

4. IT IS PROPOSED THAT THE SOVIET SIDE SEND REPRESENTA-
TIVES TO THE US IN JUNE FOR THE FOLLOWING MATHEMATICAL
SOFTWARE MEETINGS:

SYMPOSIUM ON MATRIX METHODS IN OPTIMIZATION, ARGONNE
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NATIONAL LABORATORY, ILLINOIS, JUNE 14-15;

SIAM NATIONAL MEETING, CHICAGO, ILLINOIS, JUNE 16-18;

WORKSHOP (TENTATIVE) ON PORTABILITY OF NUMERICAL
SOFTWARE OAKBROOK, ILLINOIS, JUNE 21-23.

IF SOVIET REPRESENTATIVES COME TO THE US DURING THE
PERIOD OF THE ABOVE MEETINGS, THE US SIDE WILL ARRANGE
A SPECIAL MEETING OF US LINPACK PARTICIPANTS.

5. US PARTICIPANTS IN PROJECT 1 WILL COMPLETE THREE
SETS OF REQUEST QUESTIONNAIRES FOR ORDINARY DIFFERENTIAL

EQUATIONS PROGRAMS TO BE PRODUCED BY THE PROGRAM
GENERATOR AND THE US SIDE WILL ATTEMPT TO RUN THE
PROGRAMS AT US COMPUTER INSTALLATIONS AND PREPARE A
REPORT ON THEIR EXPERIENCES.

6. THE SOVIET SIDE WILL PROVIDE A DESCRIPTION OF
ARITHMETIC CHARACTERISTICS OF THE BESM 6 WITH WHICH THE
US SIDE WILL ATTEMPT TO PREPARE A BESM 6 VERSION OF
EISPACK. UNQUOTE. KISSINGER

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